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	BIO-ENERGETICS	BIO-MEMBRANES	GENE STRUCTURE AND EXPRESSION	PROTEIN STRUCTURE AND MOLECULAR ENZYMOLOGY	LIPIDS AND LIPID METABOLISM	GENERAL SUBJECTS	MOLECULAR CELL RESEARCH	BBA REVIEWS
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Introduction

For the Subject Index, up to six key words (or short phrases) are selected for each article; these are printed together, and each is selected in turn to form an index entry. Important factors of each investigation are selected as key words; general terms such as enzyme, rat, spectroscopy, etc. will not be found as separate entries. However, such words, together with appropriate entries for source(s) of materials or for method(s) used may be found in parentheses at the end of a group of key words. These words are sub-key words and are intended to provide useful supplementary information; they do not, however, constitute sufficiently precise indexing terms to be used as index entries.

Also in parentheses at the end of each group of key words will be found the name of the first author, the volume and the first page number of the article. The full published title and co-authors of an article can be found by consulting the relevant entry for the first author in the Author Index. To determine in which section an article has been published, the volume number indicated for an entry should be checked against the 1984 Publication which can be found on the inside front cover of this index.

Readers should note that American spelling is used throughout the Subject Index.

Authors of review articles are quoted in the Author Index. BBA reviews are not included in the key-word system, but cumulative contents are to be found at the end of the Subject Index.

The Editors and Publishers welcome any comments on the usefulness of this index, together with suggestions for improvements.

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Biliverdin reductase
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Electrofocusing; Electric field (Teissie, J. (775) 446)

Cell input resistance
Membrane potential; Insecticide; DDT; Cell culture (Liver) (Schefczik, K. (776) 337)

Cell isolation
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Cell killing
Hypoxia; Leukotriene; Ionophore A23187; Hydroperoxyeicosatetraenoic acid (Trudell, J.R. (803) 338)

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Cell lysis
Mycoplasma membrane; Lysophospholipase; Lysophospholipid-cholesterol interaction (*M. capricolum*) (Gross, Z. (778) 372)

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Adenylate cyclase; Membrane isolation (Erythrocyte) (Nakagawa, M. (770) 122)

Cell migration
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Cell perfusion
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Cell proliferation
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Canavalmine; Spermine analog; Polyamine metabolism (Murine erythroleukemia) (Fujihara, S. (805) 277)

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Nucleated red cell; Erythrocyte morphology; Ca^{2+} loading; ATP depletion; Echinocytic agent (Goose) (Nikinmaa, M. (773) 317)

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Oxygen evolution; Photosystem II; Water splitting (Lettuce chloroplast) (Delrieu, M.-J. (767) 304)

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Light-harvesting complex; Photosystem II; Chlorophyll fluorescence; Fluorescence induction kinetics (Wheat, Barley, Chloroplast) (Percival, M.P. (767) 582)

Protein kinase; Protein phosphorylation; Chlorophyll fluorescence; Photosynthesis (*Prochloron, Fremyella*) (Schuster, G. (767) 596)

Chloroplast biogenesis
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Computer model; Ordered transport; Transport kinetics; Glucose; Na^+ (Harrison, D.A. (774) 1)

Chromatofocusing; Na^+ transport; Brush-border membrane; Membrane reconstitution; Carrier protein (Calf kidney) (Lin, J.-T. (774) 254)

Overshoot phenomenon; Computer simulation; Na^+ transport (Heinz, E. (776) 83)

Cotransport kinetics
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***m*-Coumaric acid**
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Countertransport
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Coupling efficiency
Photosystem II; Electron transfer; ATP formation (Spinach chloroplast) (Flores, S. (766) 289)

Coupling factor
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Chloroplast lipid; ATPase activation; Proteoliposome (Spinach chloroplast) (Pick, U. (765) 12)

Thylakoid lipid; ATP synthase; Fluorescence anisotropy; Membrane fluidity (Pea chloroplast) (Millner, P.A. (765) 282)

Mn protein; Oxygen evolution; Photophosphorylation (Spinach chloroplast) (Abramowicz, D.A. (765) 309)

Adenine nucleotide binding; Methanol; ATPase; Thylakoid membrane (Spinach chloroplast) (Anthon, G.E. (766) 354)

ATPase; Chlorophyll fluorescence; Photosystem II; Electron transport (Spinach chloroplast) (Schreiber, U. (767) 70)

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Adenylate kinase; NMR; Enzyme kinetics (Kantor, H.L. (789) 128)

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Cryoprecipitation
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$(Cu\text{-}ATP)^{2-}$
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Cyanogenesis; β-replacement reaction; Pyridoxal phosphate (*C. violaceum*) (Macadam, A.M. (786) 123)

Cyanobacterium
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Cyanogenesis
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Cystinosis
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Cytochalasin
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Glucose transport; Binding site; Photoaffinity labeling (Human placental microsome) (Wessling, M. (777) 123)

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Cytochrome aa_3
Cytochrome oxidase; Cytochrome *o*; Thermophilic bacterium (Baines, B.S. (766) 438)

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Electron transfer; Cytochrome *f*; Plastoquinone; Photosynthesis (Spinach chloroplast) (Joliot, P. (765) 210)

Cytochrome *f*; Photosystem I; Cell cycle; Thylakoid membrane (*E. gracilis*) (Kohnke, B. (766) 156)

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Redox potential; Electrochromic bandshift; Electron transport; Photosystem I (Spinach chloroplast) (Girvin, M.E. (767) 29)

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Cytochrome *c*; Electron transfer; Steady-state kinetics (Sinjorgo, K.M.C. (767) 48)

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Protein synthesis; Mitochondrial biogenesis; Griseofulvin (*R. catesbeiana*) (Amuro, N. (781) 14)

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Electron transport chain; Cytochrome *c* oxidase; Cytochrome *c* reductase; Monoclonal antibody (Bovine, *P. denitrificans*) (Kuo, L.-M. (766) 472)

ESR; Anion binding (*P. aeruginosa*) (Ellfolk, N. (784) 62)

Cytochrome *c*; Heme; Protein-protein interaction (Hoth, L.R. (788) 151)

^{1}H-NMR; Cyanide (*Pseudomonas*) (Ellfolk, N. (791) 9)

Cytochrome *c* reductase
Electron transport chain; Cytochrome *c* oxidase; Cytochrome *c* peroxidase; Monoclonal antibody (Bovine, *P. denitrificans*) (Kuo, L.-M. (766) 472)

Cytochrome *c* reductase activity
Adrenodoxin reductase; Lysine modification; Circular dichroism (Bovine adrenocortical mitochondria) (Hamamoto, I. (786) 32)

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Cytochrome *c*-551
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Cytochrome *b*-563; Photosystem I; Cell cycle; Thylakoid membrane (*E. gracilis*) (Kohnke, B. (766) 156)

Cytochrome *c*-550 (*Cyanobacteria*) (Alam, J. (766) 317)

Cytochrome *o*
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Cytochrome oxidase; Cytochrome aa_3; Thermophilic bacterium (Baines, B.S. (766) 438)

Cytochrome oxidase
Cytochrome aa_3; Cytochrome *o*; Thermophilic bacterium (Baines, B.S. (766) 438)

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K^+ transport; Valinomycin; Safranine fluorescence; Membrane reconstitution (Liposome) (Singh, A.P. (777) 194)

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Cytochrome oxidase reconstitution
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Cytochrome *P*-450
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Cytoplasmic membrane
Thylakoid membrane; Cytochrome; Prenylquinone; Cyanobacterium; Difference absorption spectrometry (*A. nidulans*) (Omata, T. (766) 395)

Cytosine arabinoside
Liposome preparation; Vesicle size; Microemulsifier; Freeze-fracture electron microscopy (Mayhew, E. (775) 169)

Cytosine arabinoside efflux
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Cytoskeletal assembly
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Cholate extraction; X-ray diffraction; Freeze-fracture; Cryopreservation (Erythrocyte membrane) (Finean, J.B. (777) 140)

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Glycoprotein Ib (Blood platelet) (Solum, N.O. (799) 209)

Calmodulin; Platelet activation (Human) (Yoshida, K.-I. (801) 290)

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Somatostatin binding (Rat intestinal mucosa) (Arilla, E. (802) 203)

Cytosolic enzyme
Mg^{2+}-ATPase; Substrate specificity (Human erythrocyte) (Mostafa, M.H. (802) 490)

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Cytotoxicity
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Lipid peroxidation; 4,5-Dihydroxy-2,3-decenal (Liver microsome) (Benedetti, A. (792) 172)

Phosphatidylinositol; Fatty acyl composition (Soybean) (Myher, J.J. (795) 85)

Phosphorylation; Chloroadenosine; Methylmercaptopurine riboside (Human cell) (Yamanaka, H. (798) 291)

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Dansylation
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Dark respiration
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Database analysis
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Herbicide mutant; Atrazine; Dichlorophenylmethylurea (*A. nidulans*) (Golden, S.S. (764) 239)

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Deacylation kinetics
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Dead-end complex
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tRNA-guanine ribosyltransferase; Pteridine (Mouse fibroblast, Rabbit reticulocyte) (Farkas, W.R. (781) 64)

***n*-Decane**
$(Na^+ + K^+)$-ATPase; Membrane reconstitution; Leakage channel; Trypsin treatment (Reinhardt, R. (774) 147)

Decay kinetics
Cytochrome *c* oxidase; Proton translocation; Vesicle reconstitution (Casey, R.P. (765) 30)

Dehydrogenase
NAD dimer; NADP dimer; Coenzyme binding (Kovář, J. (788) 98)

Lactate dehydrogenase; Hydroxybutyrate dehydrogenase; Spin label; NAD analog; ESR (Philipp, R. (790) 251)

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Delayed luminescence
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Demethylation inhibition
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Glucose; Transport kinetics (*R. glutinis*) (Taghikhani, M. (803) 278)

Glucose 6-phosphate; Glucose; Methylglucose; Hexose transport (Rat adipocyte) (Foley, J.E. (805) 313)

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cruciform DNA
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Pro-Leu-Gly; ^{17}O-NMR; Tripeptide structure (Gilboa, H. (800) 251)

Hydroxynaphthoquinone; Hydroxyanthraquinone; Redox; Quinone reduction (Ashnagar, A. (801) 351)

Flavin reactivity; Flavoprotein (Nishimoto, K. (802) 321)

Hydrogen exchange
DNA double helix; Open segment (Nakanishi, M. (798) 46)

Hydrogen peroxide
DNA damage; Hydroxyl radical; Haber-Weiss reaction; Fe-chromatin complex (Mello Filho, A.C. (781) 56)

Single-strand break; Cytotoxicity; DNA damage; DNA repair (Hoffmann, M.E. (781) 234)

Glyceraldehyde autoxidation; Monosaccharide; Ene-diol form; Trace metal (Thornalley, P. (797) 276)

Hydrogen uptake
Nitrogen fixation; Hydrogenase II purification (*C. pasteurianum*) (Adams, M.W.W. (766) 51)

Hydrolysis kinetics
Dipeptidyl peptidase IV; Aminoacyl *p*-nitroanilide (Human and pig kidney) (Heins, J. (785) 30)

Hydrolytic enzyme
Lipid extraction; Lysostaphin (*S. aureus*) (Rizzo, A.F. (792) 367)

Hydro-osmotic response
Water transport; Vasopressin; Membrane recycling (Toad bladder) (Rubin, M.S. (774) 26)

Hydroperoxide
Myeloperoxidase kinetics; Ligand binding; Compound I; Cyanide (Bolscher, B.G.J.M. (788) 1)

Cumene hydroperoxide; Cytochrome *P*-450; Lipid peroxidation; Ubiquinone (Submitochondrial particle) (Cavallini, L. (795) 466)

Hydroperoxide lyase
Stereochemistry; 1-Octen-3-ol; Lipid hydroperoxide (*P. bispora*) (Wurzenberger, M. (795) 163)

Hydroperoxy acid
Leukotriene; Arachidonate; Heme protein; Peroxidase (Rådmark, O. (792) 324)

12-Lipoxygenase; Arachidonic acid; Ca^{2+} (Rat basophilic leukemia cell) (Hamasaki, Y. (793) 393)

1-Octen-3-ol; 10-Oxo-*trans*-8-decenoic acid; Linoleic acid (*P. bispora*) (Wurzenberger, M. (794) 25)

Hydroperoxyeicosatetraenoic acid
8-Hydroxy-11,12-epoxide; 10-Hydroxy-11,12-epoxide; Trihydroxyeicosatrienoic acid; Hemin; Lipid epoxide (Pace-Asciak, C.R. (793) 485)

Hypoxia; Cell killing; Leukotriene; Ionophore A23187 (Trudell, J.R. (803) 338)

Hydrophobic chromatography
Calmodulin; S-100 protein; Troponin C (Tanaka, T. (787) 158)

Pyroglutamyl-peptidase; Thiol proteinase (*B. amyloliquefaciens*) (Tsuru, D. (791) 117)

Hydrophobic interaction
Albumin-bile salt interaction; Cholate; Bile salt (Human serum) (Scagnolari, F. (791) 274)

Hydrophobicity
Protein degradation; Thermodynamic theory (Mann, D.F. (788) 17)

Lipoprotein; Phospholipid transfer (Massey, J.B. (794) 274)

Hydrophobic label
Naphthyl diazotrifluoropropionate; Photolabeling; Carbene; Diazo group; Chromatophore (*R. rubrum*) (Meister, H. (771) 103)

Hydrostatic pressure
Membrane order; Dioleoylphosphatidylcholine vesicle; Cholesterol; Temperature (Chong, P.L.-G. (772) 197)

Homeoviscous adaptation; Membrane order; Fluorescence polarization (Deep-sea fish) (Cossins, A.R. (776) 144)

Membrane fusion; Lipid tube fission; Mechanical stability; Membrane tension (Lipid bilayer) (Melikyan, G.B. (776) 169)

Anion transport; Sulfate transport (Erythrocyte membrane) (Canfield, V.A. (778) 379)

Lactate dehydrogenase; Amino acid substitution (*Sebastolobus* sp.) (Siebenaller, J.F. (786) 161)

2-Hydroxyacetaldehyde
Glycosylation; LDL; Lipoprotein receptor; Lipoprotein catabolism; Fractional clearance rate (Slater, H.R. (792) 318)

Hydroxyacid dehydrogenase
Hydroxybutyrate dehydrogenase (Chicken liver) (Herzberg, G.R. (802) 67)

4-Hydroxyalkenal
Ca^{2+} sequestration; Lipid peroxidation (Liver microsome) (Benedetti, A. (793) 489)

Hydroxyanthraquinone
Hydroxynaphthoquinone; Hydrogen bond; Redox; Quinone reduction (Ashnagar, A. (801) 351)

Hydroxybenzimidazolylcobamide
Corrinoid synthesis (*M. barkeri*) (Pol, A. (797) 83)

Hydroxybenzoate
Membrane permeability; Membrane protein; Cefoxitin uptake (Rat rectal membrane) (Nishihata, T. (775) 269)

Hydroxybutyrate dehydrogenase
Carboxyl group; Enzyme-lipid interaction; Active site (El Kebbaj, M.S. (789) 278)

Dehydrogenase; Lactate dehydrogenase; Spin label; NAD analog; ESR (Philipp, R. (790) 251)

ESR; Spin label; Coenzyme binding; NAD (Fritzsche, T.M. (791) 173)

Hydroxyacid dehydrogenase (Chicken liver) (Herzberg, G.R. (802) 67)

Hydroxycholesterol
Hydroxyvitamin D_3; Liposome; Cation permeability; Membrane permeability (Holmes, R.P. (770) 15)

Hydroxycitrate
Proline; Lipid synthesis; Mercaptopicolinate (Rat hepatocyte) (Sugden, M.C. (798) 368)

Hydroxyeicosatetraenoic acid
Arachidonate metabolism; Leukotriene synthesis; Ca^{2+} ionophore (Human neutrophil) (Sun, F.F. (794) 56)

Lipoxygenase; Prostaglandin (Human skin fibroblast) (Mayer, B. (795) 151)

Prostaglandin; Lipoxygenase; Glycerolipid; Depolarization (Rat retina) (Birkle, D.L. (795) 564)

8-Hydroxy-11,12-epoxide
10-Hydroxy-11,12-epoxide; Trihydroxyeicosatrienoic acid; Hydroperoxyeicosatetraenoic acid; Hemin; Lipid epoxide (Pace-Asciak, C.R. (793) 485)

10-Hydroxy-11,12-epoxide
8-Hydroxy-11,12-epoxide; Trihydroxyeicosatrienoic acid; Hydroperoxyeicosatetraenoic acid; Hemin; Lipid epoxide (Pace-Asciak, C.R. (793) 485)

Hydroxyethyl ferrocene
Laccase reduction; Electron transfer rate (*R. vernicifera*) (Holwerda, R.A. (791) 112)

Hydroxyindole *O*-methyltransferase
S-Adenosylhomocysteine binding (Bovine pineal gland) (Kuwano, R. (787) 1)

Hydroxylamine
Fatty acid release; Glycoprotein (Virus) (Magee, A.I. (798) 156)

Hydroxylation
Dihydropteridine reductase inhibition; Tyrosine metabolite; Phenylalanine; Aromatic amino acid (Liver) (Shen, R.-S. (785) 181)

24-Hydroxylation
Bile acid synthesis; 3α,7α,12α-Trihydroxy-5β-cholestanoic acid; β-oxidation (Rat liver peroxisome) (Björkhem, I. (796) 142)

25-Hydroxylation
Vitamin D metabolism; Cytochrome *P*-450 (Rat liver) (Holmberg, I. (800) 106)

Hydroxyl radical
DNA damage; Hydrogen peroxide; Haber-Weiss reaction; Fe-chromatin complex (Mello Filho, A.C. (781) 56)

Fe^{3+}; ADP; Cytochrome *P*-450 reductase; Mitomycin C; Lipid peroxidation (Nakano, H. (796) 285)

Hydroxymethylglutaryl-CoA
Sterol balance; Bile acid; Cholesterol synthesis; Cholesterol level (Guinea pig) (McNamara, D.J. (796) 51)

Hydroxymethylglutaryl-CoA reductase
Cholesterol synthesis; Fatty acid synthesis; Triiodothyronine; Hydrocortisone; Insulin (Amorosa, L.F. (792) 192)

Acyl-CoA:cholesterol acyltransferase; Mevalonate; Cholesterol synthesis; Cell cycle (Rat liver) (Trentalance, A. (794) 142)

Isotope dilution; Phytochrome (Radish seedling) (Bach, T.J. (794) 152)

Cholesterol synthesis; Mevalonate (Hamster) (Javitt, N.B. (794) 172)

Dolichol synthesis; Cholesterol feeding; Fasting (Mouse liver) (Potter, J.E.R. (796) 393)

Acyl-CoA:cholesterol acyltransferase; Phosphorylation (Rabbit intestine) (Field, F.J. (802) 9)

Enzyme regulation; Phosphorylation/dephosphorylation (Human leukocyte microsome) (Harwood, H.J. Jr. (805) 245)

Hydroxynaphthoquinone
Hydroxyanthraquinone; Hydrogen bond; Redox; Quinone reduction (Ashnagar, A. (801) 351)

4-Hydroxynonenal
Lipid peroxidation; Fe^{2+}; Histidine (Ehrlich ascites tumor cell) (Winkler, P. (796) 232)

16α-Hydroxyprogesterone dehydroxylase
Δ^{16}-Progesterone; Steroid biotransformation; Anaerobic bacterium (*Eubacterium* sp. 144) (Glass, T.L. (792) 59)

Hydroxyproline
Free-radical scavenger; Fenton reaction; Nitroxyl radical; ESR; Proline (Floyd, R.A. (790) 94)

Hydroxypropylmethacrylamide copolymer
Tyrosinamide residue; Pinocytosis (Duncan, R. (799) 1)

15-Hydroxyprostaglandin dehydrogenase
Prostacyclin; Prostaglandin metabolism (Cat kidney) (Förstermann, U. (793) 338)

Hydroxysteroid dehydrogenase
Membrane fluidity; Corticosteroid synthesis; Cholesterol; Fluorescent probe (Mitochondrial inner membrane) (De Paillerets, C. (772) 183)

NADP; Thermal denaturation (Rat ovary) (Pongsawasdi, P. (799) 51)

17β-Hydroxysteroid dehydrogenase
Anaerobe; Steroid metabolism (Human fecal flora) (Winter, J. (795) 208)

20β-Hydroxysteroid dehydrogenase
Renaturation; Lyotropic-anion effect; Fluorescence change; Circular dichroism (*S. hydrogenans*) (Carrea, G. (784) 16)

***N*-Hydroxysuccinimide ester**
Phosphatidylethanolamine; Liposome (Kinsky, S.C. (769) 543)

Hydroxyurea
DNA synthesis; Initiation; Replication origin (Mouse Ehrlich ascites tumor) (Vassilev, L. (781) 39)

Hydroxyvitamin D_3
Hydroxycholesterol; Liposome; Cation permeability; Membrane permeability (Holmes, R.P. (770) 15)

Hypercholesterolemia
Lipoprotein; Cholesterol ester; LDL; Lipoprotein cholesterol (Hough, J.L. (792) 338)

Hypercortisolism
Ca^{2+} transport; Glucose transport; Dihydroxyvitamin D_3; Brush-border membrane (Rat intestine) (Braun, H.J. (774) 81)

Hyperglycemia
Hyperketosemia; Ketohexose; Carbohydrate transport; Phlorizin; Phloretin; Na^+ dependence (Rat intestine) (Csáky, T.Z. (772) 259)

Hyperketosemia
Hyperglycemia; Ketohexose; Carbohydrate transport; Phlorizin; Phloretin; Na^+ dependence (Rat intestine) (Csáky, T.Z. (772) 259)

Hyperlipidemia
VLDL; Triacylglycerol turnover; Tumor lipid (Rat) (Redgrave, T.G. (795) 286)

Hyperlipoproteinemia
Lipoprotein analysis; LDL; Zonal ultracentrifugation (Manzato, E. (793) 365)

Hyperoxia
Lung surfactant; Phosphatidylcholine; Phospholipid synthesis; Phospholipid secretion (Rabbit) (Ward, J.A. (796) 42)

Oxygen toxicity; Superoxide generation (Porcine lung, Liver) (Yusa, T. (798) 167)

Hyperpolarization
Resting membrane potential; NADH dehydrogenase; Membrane resistance; Na^+/K^+ pump (Muse skeletal muscle) (Zemková, H. (775) 64)

Hypertension
Li^+ transport; Temperature dependence (Erythrocyte membrane) (Levy, R. (769) 41)

Hyperthyroidism
Thyroxine; Isocitrate dehydrogenase; ATP-citrate lyase; Malate dehydrogenase; Malic enzyme (Rat testis) (Aruldhas, M.M. (797) 143)

Hypertonic stimulation
Ca^{2+} dependence; Prostaglandin synthesis; Arachidonate (Craven, P.A. (804) 450)

Hypertriglyceridemia
VLDL; Heparin-Sepharose; Apolipoprotein; Lipoprotein metabolism (Human) (Huff, M.W. (796) 251)

Hypnorm
Anesthetic; Chloralosane; Pentobarbital; Freeze-fracture; Morphometry (Rat heart mitochondria) (Hertsens, R. (769) 411)

Hypoglycin
Dicarboxylicaciduria; Fatty acid metabolism; ω-Oxidation (Rat) (Golden, K.D. (794) 83)

Hypolipidemic drug
Fatty acid oxidation; β-oxidation; Palmitoyl-CoA; Cholesterol; Triacylglycerol (Rat liver peroxisome) (Harrison, E.H. (796) 163)

Hypoosmotic shock
Volume regulation; Membrane potential; Ion transport (CHO cell) (Sarkadi, B. (774) 159)

Hypothalamus
Temperature acclimation; Phospholipid membrane; Phase transition; Differential scanning calorimetry; Phospholipid composition (Lizard brain) (Durairaj, G. (770) 7)

Hypothyroidism
Lipoprotein lipase; VLDL; LDL; Acyl chain; Triacylglycerol (Rat heart perfusion) (Ridgway, N. (796) 64)

Adrenergic stimulation; Glycogenolysis (Rat liver) (Storm, H. (798) 350)

Hypotonic medium
Cell shrinkage; Cl^+-Cl^- exchange; Deoxyglucose; Propranolol (Ehrlich ascites cell) (Thornhill, W.B. (773) 207)

Hypoxanthine uptake
Brush-border membrane; Uric acid uptake; Xanthine uptake (Mouse small intestine) (Shaw, M.I. (778) 530)

Hypoxia
Oxygen partial pressure; Carbon tetrachloride; Lipid peroxidation (Rat liver microsome) (Noll, T. (795) 356)

Cell killing; Leukotriene; Ionophore A23187; Hydroperoxyeicosatetraenoic acid (Trudell, J.R. (803) 338)

Hypsorhodopsin
Rhodopsin; Picosecond laser photolysis (Squid, Octopus, Cattle) (Matuoka, S. (765) 38)

Hypusine
Development; Amino acid assay (Rat) (Sano, A. (800) 135)

I

Iduronate 2-sulfate sulfatase
Enzyme antibody; Immunoprecipitation (Human urine) (Lissens, W. (801) 365)

IgG
C1q; Complement binding; Inter-chain disulfide bond cleavage (Rabbit) (Sutton, J. (787) 39)

3d-Image reconstruction
NADH dehydrogenase; Electron microscopy (Bovine heart muscle) (Boekema, E.J. (787) 19)

Imidazole-imidazole
Photooxidation; Cross-linking; Protoporphyrin; Imidazole-sulfhydryl (Van Steveninck, J. (788) 35)

Imidazole-sulfhydryl
Photooxidation; Cross-linking; Protoporphyrin; Imidazole-imidazole (Van Steveninck, J. (788) 35)

Imido ester
Membrane amine; Schiff base; Antisickling agent; Immunogenic response (Erythrocyte membrane) (Chao, T.L. (771) 183)

Imino acid transport
Non-α-amino acid transport (Guinea-pig small intestine) (Munck, B.G. (770) 35)

Imipramine
Paroxetine; Drug receptor; Temperature dependence (Platelet membrane) (Plenge, P. (770) 22)

Immobilized enzyme
Chymotrypsin; Enzyme deactivation; Aliphatic alcohol; ESR (Clark, D.S. (788) 181)

Immune attack
Phospholipid monolayer; Lipid hapten; Photobleaching; Superoxide release (Neutrophil) (Hafeman, D.G. (772) 20)

Immune response
Liposome; Surface antigen; Encapsulation; Protein immobilization (Snyder, S.L. (772) 288)

Immunoadsorbent
Fluorescein derivative; Membrane protein; Hapten (Gundersen, G.G. (799) 68)

Immunoaffinity chromatography
Procolipase; N-terminal sequence (Human pancreatic juice) (Sternby, B. (786) 109)

Immunoassay
Monoclonal antibody; Enolase (Kimura, S. (799) 252)

Immunoblotting
Porin; Subcellular distribution (Rat liver mitochondria) (Lindén, M. (770) 93)

Immunochemistry
Mitochondrial outer membrane; Ion channel; Membrane reconstitution; Crystalline array (Mannella, C.A. (774) 206)

Nitrite reductase; Coupling protein (Spinach) (Hirasawa, M. (791) 145)

Immunoelectrophoresis
Oxygen evolution; Thylakoid membrane; Membrane protein; Photosystem II (Andersson, B. (766) 21)

Adenine nucleotide translocator; Membrane protein; Detergent-membrane interaction; Charge shift (Bovine heart mitochondria) (Schultheiss, H.-P. (771) 235)

Acetylcholinesterase; Papain digestion (Erythrocyte membrane) (Weitz, M. (776) 65)

HDL; Apolipoprotein; Cross-linking (Swaney, J.B. (792) 164)

Immunofluorescence
Sulfogalactosylceramide (Bovine, Rat spleen granulocyte) (Sarlieve, L.L. (795) 166)

Immunogenic response
Membrane amine; Schiff base; Imido ester; Antisickling agent (Erythrocyte membrane) (Chao, T.L. (771) 183)

Immunoglobulin
Rotational dynamics; Fluorescence anisotropy; Lipid hapten; Membrane fluidity (Liposome) (Osada, H. (773) 321)

Cryoglobulin; Chemical modification; Cryoprecipitation (Human) (Kosarev, I.V. (790) 125)

Immunoglobulin carbohydrate
Liposome targeting; Membrane-protein interaction (Chua, M.-M. (800) 291)

Immunoglobulin G
Poly(ethylene glycol) (Suzuki, T. (788) 248)

Coupling network; Oligosaccharide Fc region; NMR (Homans, S.W. (798) 78)

Myeloperoxidase; Opsonization; C3b (Coble, B.-I. (802) 501)

Immunoglobulin G binding
Complement; C1q; Hemolytic activity (Sasaki, T. (785) 118)

Immunoglobulin M
Protein A; Protein-protein interaction (Gentile, T.C. (791) 102)

Macroglobulinemia; Asparagine link; Oligosaccharide structure (Cahour, A. (802) 188)

Immunoprecipitation
Oxygen evolution; Thylakoid membrane; Nearest-neighbor analysis; Photosystem II (Spinach chloroplast) (Ljungberg, U. (767) 145)

Cell-free system; Picornavirus; Polyprotein; Peptide mapping; Translation (Flacherie virus, *Bombyx mori*) (Hashimoto, Y. (781) 76)

Iduronate 2-sulfate sulfatase; Enzyme antibody (Human urine) (Lissens, W. (801) 365)

Immunoreactivity
Rhodopsin; Opsin (Plantner, J.J. (802) 83)

IMP
Purine nucleotide metabolism; AMP (Rat myocyte) (Zoref-Shani, E. (804) 161)

Inactivation
Proteolysis; α_2-Macroglobulin; Snake venom (*N. nigricollis*) (Evans, H.J. (784) 97)

Alkaline phosphatase; Ascorbate (Bovine kidney) (Miggiano, G.A.D. (789) 343)

Inactivation order
Enzyme inactivation; Inhibition kinetics (Carlson, G.M. (789) 347)

Incorporation symmetry
(Na^+ + K^+)-ATPase; Membrane reconstitution; Enzyme reconstitution; Phospholipid vesicle; Lipid composition (Cornelius, F. (772) 357)

Indoleamine 2,3-dioxygenase
Magnetic circular dichroism; ESR; Tryptophan binding; Heme coordination structure (Sono, M. (789) 170)

Indomethacin
Dexamethasone; Lipopolysaccharide; Collagenase secretion (Macrophage) (Mainardi, C.L. (805) 137)

Infarction
Liposome accumulation; Ischemia; Phospholipase; Lysophosphoglyceride (Palmer, T.N. (797) 363)

Inflammation
rRNA; RNA transport; RNA methylation; Acute-phase reaction (Rat liver) (Aletti, M.G. (783) 179)

PAF-acether; Arachidonate; Ether phospholipid (Rat alveolar macrophage) (Albert, D.H. (796) 92)

Iron release; Transferrin; Ferritin (Mouse peritoneal macrophage) (Brock, J.H. (797) 105)

Sialyltransferase; Turpentine (Rat) (Fraser, I.H. (799) 102)

Membrane degradation; Phagocytosis; Lysosomal enzyme (Glomerular basement membrane) (Vissers, M.C.M. (804) 154)

Influenza virus protein
Membrane-protein interaction; Viral assembly; Surface potential (Lipid bilayer) (El Karadaghi, S. (778) 269)

Membrane-protein interaction; Amantadine; Rimantadine; Antiviral agent; Surface potential (Lipid bilayer) (Tverdislov, V.A. (778) 276)

Infrared spectroscopy
Protein-lipid interaction; Dimyristoylphosphatidylcholine; Gramicidin A; Alamethicin; Bacteriorhodopsin (Lee, D.C. (769) 49)

Lipid-protein interaction; Phase transition; Calorimetry; Glycophorin; Phospholipid vesicle (Mendelsohn, R. (774) 237)

Acid phosphatase; Raman spectroscopy; Phosphosugar (Rat liver) (Twardowski, J. (790) 70)

Lipid headgroup; *O*-Phospho-L-serine; Hydrogen bond (Dluhy, R.A. (792) 182)

Inhalation anesthetic
Anesthesia theory; Interfacial water; Colloid chemistry; ^{1}H-NMR (Yoshida, T. (772) 102)

Inhibition kinetics
Enzyme inactivation; Inactivation order (Carlson, G.M. (789) 347)

Trehalase; Substrate-binding site (Rabbit kidney) (Nakano, M. (791) 45)

Inhibition mechanism
Platelet aggregation; von Willebrand factor; Ristocetin cofactor; Trinitrophenylation (Santoro, S.A. (797) 178)

Inhibition peptide
DNA synthesis (Lymphocyte, Fibroblast) (Okai, Y. (802) 287)

Inhibition specificity
Protein kinase; Alloxan (Norling, L.L. (801) 197)

Inhibitor binding site
Mg^{2+}-ATPase; Secretory granule; Oligomycin inhibition; Proton pump (Pituitary gland) (Lorenson, M.Y. (769) 479)

Inhibitor-2
Protein phosphatase; Glycogen synthase kinase; Primary structure; Phosphorylated residue (Aitken, A. (790) 288)

Initiation
DNA synthesis; Hydroxyurea; Replication origin (Mouse Ehrlich ascites tumor) (Vassilev, L. (781) 39)

Initiation factor
Protein synthesis; Ultraviolet cross-linking; mRNA (Semliki Forest virus) (Setyono, B. (782) 242)

Translation; Cell-free system; Protein synthesis (Ehrlich ascites tumor cell) (Person, A. (783) 152)

Initiation rate
DNA synthesis; Adenovirus (HeLa cell) (D'Halluin, J.C. (782) 67)

Inorganic pyrophosphatase
Proton pump; Photophosphorylation; Chromatophore (Nyrén, P. (766) 630)

***myo*-Inositol**
Phosphatidylcholine; Phosphatidylinositol; Phosphatidylglycerol; Lung surfactant (Fetal rabbit) (Hallman, M. (795) 67)

Inositol dehydrogenase
Catabolite repression; Enzyme synthesis; Gluconate kinase (*B. subtilis*) (Nihashi, J.-I. (798) 88)

Inositol label
Phosphoinositide; Thrombin (Pig platelet) (Lymberopoulos, G. (805) 285)

Inositol lipid
CDPdiacylglycerol analog; Phosphatidylinositol synthesis; Liponucleotide inhibitor (Human platelet) (Vargas, L.A. (796) 123)

Insecticide
Membrane potential; Cell input resistance; DDT; Cell culture (Liver) (Schefczik, K. (776) 337)

Insecticide-membrane interaction
Parathion; Partition; Phase transition; Cholesterol (Model membrane) (Antunes-Madeira, M.C. (778) 49)

Insect-selective toxin
Membrane-toxin interaction; Neurotoxin; Membrane potential; Synaptosome (Scorpion, Locust) (Gordon, D. (778) 349)

Inside-out vesicle
K^+ transport; Electron donor; Ca^{2+} effect; Redox state (Human erythrocyte membrane) (Alvarez, J. (771) 23)

Calmodulin overlay; Ca^{2+}-ATPase; Ca^{2+} pump (Rabbit synaptosome plasma membrane) (Hincke, M.T. (771) 188)

Transbilayer reorientation; Flip-flop; Lysophospholipid; Phospholipid asymmetry; Spectrin (Erythrocyte membrane) (Dressler, V. (775) 189)

Insulin
Carbohydrate transport; Methylglucose (Rat adipocyte) (Vinten, J. (772) 244)

Membrane structure; Lipid order; Fluorescent label; ESR (Liver plasma membrane) (Hyslop, P.A. (776) 267)

Amino acid transport; Serine transport; Diabetes (Rat exocrine pancreas) (Mann, G.E. (778) 618)

Polypeptide chain interaction; Protein folding; Difference spectroscopy (Hua, Q.-X. (789) 234)

Cholesterol synthesis; Fatty acid synthesis; Hydroxymethylglutaryl-CoA reductase; Triiodothyronine; Hydrocortisone (Amorosa, L.F. (792) 192)

Ketogenesis; Lipoprotein secretion; Pyruvate dehydrogenase (Rat liver) (Laker, M.E. (795) 427)

Receptor-binding kinetics; Iodination (Watanabe, N. (798) 313)

Glucose transport; Carbohydrate metabolism; Electrical stimulation (Mouse hindquarter) (Chan, T.M. (798) 325)

Endocytosis; Progesterone; Meiosis (Amphibian oocyte) (Morrill, G.A. (803) 71)

Methylisobutylxanthine; Deoxyglucose transport (Rat adipocyte) (Wieringa, T. (803) 123)

Adrenalin; 8-bromo-cyclic AMP; Deoxyglucose transport (Rat adipocyte) (Wieringa, T. (803) 129)

Peptide secretion (Pancreatic B-cell) (Sopwith, A.M. (803) 342)

Glucose metabolism (Rat adipocyte) (Gliemann, J. (804) 68)

Sodium nitroprusside; Metabolic regulation (Rat adipocyte) (Emami, S. (804) 77)

Membrane lipid unsaturation; Multiplication-stimulating activity (Endothelial cell) (Bar, R.S. (804) 466)

Pyruvate kinase; Glucagon; Dexamethasone; Fructose bisphosphate (Rat hepatocyte) (Fleig, W.E. (805) 165)

Lipogenic enzyme; Lipoprotein lipase; Isoproterenol; Glucagon; Hormone sensitivity; Differentiation (Rat preadipocyte) (Gaben-Cogneville, A.-M. (805) 252)

Insulin action
Glucose transport; Plasma membrane; Golgi fraction; Liposome (Rat fat cell) (Smith, M.M. (775) 121)

Insulin receptor; Photoaffinity labeling (Rat adipocyte) (Klotz, G. (803) 78)

pH effect; Insulin receptor; Photoaffinity labeling (Rat adipocyte) (Saunders, D. (803) 85)

Insulin binding
Receptor affinity; Ca^{2+} sensitivity (Williams, P.F. (797) 27)

N-Ethylmaleimide; Sugar transport (Rat soleus muscle) (Kozka, I.J. (797) 212)

Insulin degradation; Temperature effect (Erythrocyte) (Dwenger, A. (798) 132)

Hormone receptor (Human muscle) (Bonen, A. (801) 171)

Dimethylsulfoxide; Membrane fluidity; Phospholipid composition (Friend cell) (Simon, I. (803) 39)

Insulin degradation
Insulin binding; Temperature effect (Erythrocyte) (Dwenger, A. (798) 132)

Insulin receptor
Receptor distribution; Membrane vesicle; Right-side-out vesicle (Erythrocyte membrane) (Im, J.H. (775) 260)

Differentiation; Affinity labeling (Mouse neuroblastoma) (Rinehart, C.A. Jr. (802) 515)

Insulin action; Photoaffinity labeling (Rat adipocyte) (Klotz, G. (803) 78)

pH effect; Insulin action; Photoaffinity labeling (Rat adipocyte) (Saunders, D. (803) 85)

Insulin uptake; Endocytosis (Rat adipocyte) (Sonne, O. (804) 404)

Insulin release
Ca^{2+} transport; Na^{+}-Ca^{2+} exchange; Glucose (Mouse pancreatic islet) (Hellman, B. (770) 136)

Asparagine; Leucine; Amino acid; Stimulus-secretion coupling (Pancreatic islet) (Malaisse, W.J. (797) 194)

Eicosanoid synthesis inhibition (Pancreatic islet) (Dunlop, M. (801) 10)

Insulin secretion
Arachidonic acid metabolism; Glucose (Pancreatic islet) (Turk, J. (794) 125)

Insulin uptake
Insulin receptor; Endocytosis (Rat adipocyte) (Sonne, O. (804) 404)

Intercalation
Nitracrine; Methoxypsoralen; Groove binding; DNA-ligand interaction (Wilmańska, D. (782) 285)

Inter-chain disulfide bond cleavage
C1q; IgG; Complement binding (Rabbit) (Sutton, J. (787) 39)

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Ethanol; Phase transition; X-ray diffraction; Phosphatidylcholine bilayer (Simon, S.A. (773) 169)

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Kininogenase
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Lysine deficiency
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Methylthioadenosine phosphorylase
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Mini-circle evolution
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Myelin P_0 glycoprotein
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NADH
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Plasminogen activator inhibition
Plasminogen activator (Human plasma) (Thorsen, S. (802) 111)

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Retinoic acid-binding protein (Haussler, M.R. (803) 54)

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α_1-globin mRNA
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rRNA processing
rRNA precursor; Endonuclease cleavage site; Spacer sequence (Rat liver) (Hadjiolova, K.V. (782) 195)

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5.8 S rRNA
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$tRNA^{Gln}$
tRNA structure; tRNA gene; Nucleotide sequence (Bacteriophage T5) (Shlyapnikov, M.G. (782) 313)

tRNA quantitation cloning
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RNA processing
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RNA sequence
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Spin label
Band 3; Cytoskeleton; Protein-protein interaction; Lipid-protein interaction; ESR (Bittman, R. (769) 85)

Phosphatidylcholine membrane; Anesthetic-membrane interaction; Tetracaine; Partition coefficient; ESR (Schreier, S. (769) 231)

Phospholipid composition; Phospholipid headgroup; ESR (Glial cell membrane) (McKenzie, R.C. (769) 357)

Phospholipid vesicle; Ca^{2+}; Lipid distribution; Phase transition; ESR (Gaestel, M. (769) 511)

Cardiolipin; Membrane fluidity; Temperature acclimation; Fluorescence polarization; Mitochondria (*Tetrahymena*) (Ohki, K. (769) 563)

Anesthetic-membrane interaction; Membrane protein; Fluorescent label; Anilinonaphthalene sulfonate (Chan, D.S. (770) 55)

ESR; Microsomal membrane; Membrane protein (Rat liver) (Barber, M.J. (776) 159)

Membrane protein; Neurotoxin; Quinolinic acid (Erythrocyte membrane) (Farmer, B.T. II (778) 260)

Nicotine-membrane interaction; Chemotaxis; ESR (Granulocyte membrane) (Gala, D. (778) 503)

Lipoamide residue; Pyruvate dehydrogenase (*E. coli*) (Griffin, M.C.A. (789) 87)

Dehydrogenase; Lactate dehydrogenase; Hydroxybutyrate dehydrogenase; NAD analog; ESR (Philipp, R. (790) 251)

Hydroxybutyrate dehydrogenase; ESR; Coenzyme binding; NAD (Fritzsche, T.M. (791) 173)

Superoxide; Nitroxide reduction; Sulfhydryl reagent (Finkelstein, E. (802) 90)

Spin-lattice relaxation
Water proton (Rat liver) (Fantazzini, P. (803) 250)

Spin probe
Membrane potential; Surface potential; Mitochondrial membrane; Oxidative phosphorylation (Hashimoto, K. (764) 55)

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ENDOR; ESR; Fatty acid methyl ester (Evans, J.C. (792) 239)

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Squalene epoxidase
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Stanozolol
Anabolic steroid; Lecithin:cholesterol acyltransferase; Apolipoprotein D; Apolipoprotein B; Lp(a) particle (Albers, J.J. (795) 293)

Starch degradation
Fermentation; Glycolysis oscillation (*C. reinhardii*) (Kreuzberg, K. (799) 291)

Starch hydrolysis
α-Glucosidase; Oligomaltosaccharide; α-Glucan (*B. stearothermophilus*) (Suzuki, Y. (787) 281)

State transition
Oxygen evolution; Photosynthesis; Photosystem; Light excitation; Photoacoustic spectroscopy (Canaani, O. (766) 513)

Protein phosphorylation; Chlorophyll fluorescence; Phycobilisome; Excitation energy distribution (Red alga) (Biggins, J. (767) 138)

Static head method
Chemiosmotic theory; Charge stoichiometry; Na^+; Coupled transport; Glucose transport (Rabbit kidney brush-border membrane) (Fukuhara, Y. (770) 73)

Steady-state kinetics
ATP synthesis; ADP-arsenate; Chromatophore; Arsenate (*R. rubrum*) (Slooten, L. (766) 88)

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Stereochemistry
Glycerolipid; Acylation; 2-Monoacylglycerol; Transacylase (Bugaut, M. (792) 254)

Enantiomer; Dolichyl phosphate mannose; Mannosyl transferase (Chojnacki, T. (793) 187)

Hydroperoxide lyase; 1-Octen-3-ol; Lipid hydroperoxide (*P. bispora*) (Wurzenberger, M. (795) 163)

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Steroid action
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Steroid binding
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Steroid biotransformation
16α-Hydroxyprogesterone dehydroxylase; Δ^{16}-Progesterone; Anaerobic bacterium (*Eubacterium* sp. 144) (Glass, T.L. (792) 59)

Steroid hormone
Gene expression; Hormonal regulation; Glucocorticoid; DNA sequence (Groner, B. (781) 1)

Serum level; Hormonal regulation; Contrapsin; α_1-Antiproteinase (Mouse) (Yamamoto, K. (798) 231)

Steroid metabolism
17β-Hydroxysteroid dehydrogenase; Anaerobe (Human fecal flora) (Winter, J. (795) 208)

Steroidogenesis
HDL; Lipoprotein binding; ACTH; Hormone action (Rat adrenal cell) (Fidge, N. (793) 180)

Steroid-receptor complex
Chromatin binding; Estradiol; Antiestrogen (Singh, R.K. (800) 33)

Sterol balance
Bile acid; Hydroxymethylglutaryl-CoA; Cholesterol synthesis; Cholesterol level (Guinea pig) (McNamara, D.J. (796) 51)

Sterol metabolism
Lathosterol; Differentiation; Chemical carcinogen (Keratinocyte) (Okamoto, T. (805) 143)

Sterol synthesis
LDL; Lipid transfer protein; Lipoprotein receptor (Human skin fibroblast, Macrophage) (Chait, A. (795) 314)

Cholesterol esterification; Cholesterol; Compartmentation; Mevalonate (Rabbit intestinal mucosa) (Herold, G. (796) 27)

Adrenergic receptor (Human mononuclear leukocyte) (Krone, W. (804) 137)

Stigmatellin
Respiratory chain inhibitor; Electron transfer; Cytochrome *b*-c_1 segment; Antibiotic (Bovine heart mitochondria) (Thierbach, G. (765) 227)

***cis*-Stilbene**
Cholesterol epoxide; Linoleate hydroperoxide; Phospholipid hydroperoxide; Fe^{2+} (Watabe, T. (795) 60)

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Cytochrome *P*-450; Enzyme induction; Monooxygenase (Meijer, J. (789) 1)

Stimulus-secretion coupling
Asparagine; Leucine; Insulin release; Amino acid (Pancreatic islet) (Malaisse, W.J. (797) 194)

Stopped flow
Phase transition; Electrostatic effect; Phosphatidic acid bilayer (Elamrani, K. (769) 578)

Storage change
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Strand break
DNA damage; DNA-drug interaction; Etoposide; Enzyme dependence; Drug activation (Glisson, B.S. (783) 74)

Streptococcal toxin
Transglutaminase; Toxic shock syndrome (Human leukocyte) (Zettergren, J.G. (802) 385)

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Streptonigrin lethality
Iron uptake; Picolinic acid; Substrate adaptation (*E. coli*) (Yeowell, H.N. (797) 302)

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Strobilurin A
Mucidin; Nitrate reduction; Electron transport; Cytochrome *b* (*P. denitrificans*) (Kučera, I. (767) 383)

Structural organization
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Structure prediction
Peptide ligand classification; Receptor conformation (Snell, C.R. (787) 53)

Subcellular distribution
Porin; Immunoblotting (Rat liver mitochondria) (Lindén, M. (770) 93)

Aspirin hydrolase; Carboxylesterase (Guinea-pig liver) (White, K.N. (785) 132)

Subcellular fractionation
Protoplast; Chitin synthase; Polypeptide profile (*S. cerevisiae*) (Martínez, J.P. (805) 59)

Subcellular localization
Prolactin; Internalization; Hormone receptor; Sex difference (Rat liver) (Basset, M. (769) 79)

Fluorescent probe; Rhodamine B; Hexadecylindocarbocyanine; Collarein; Fluorescence lifetime (Packard, B.S. (769) 201)

Adenylate cyclase; Guanylate cyclase; Plasma membrane (Calf thymus lymphocyte) (Kaever, V. (776) 133)

Glycerolipid synthesis; Ether lipid; Plasmalogen (Rat liver peroxisome) (Ballas, L.M. (795) 297)

Prostaglandin E_2; Catecholamine (Bovine adrenal medulla) (Karaplis, A.C. (801) 189)

Subcellular membrane
Cholesterol ester; Cholesterol transfer; Nutrition (Liver microsome) (Mitropoulos, K.A. (792) 227)

Subfragment 1
Dinitrophenylation; Phosphorylation; Myosin (Chicken gizzard muscle) (Bailin, G. (789) 104)

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Substance P receptor
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Substrate adaptation
Streptonigrin lethality; Iron uptake; Picolinic acid (*E. coli*) (Yeowell, H.N. (797) 302)

Substrate affinity
Succinate dehydrogenase; Sulfhydryl group; Redox state (Kotlyar, A.B. (784) 24)

Substrate analog
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Substrate-binding site
Trehalase; Inhibition kinetics (Rabbit kidney) (Nakano, M. (791) 45)

Substrate induction
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Substrate inhibition
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Malate dehydrogenase; Oxaloacetate (*P. blakesleeanus*) (De Arriaga, D. (784) 158)

Substrate permease
Fatty-acid oxidation; Hibernation; Thermogenesis; Membrane permeability (Brown fat mitochondria) (Cannon, B. (766) 483)

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(Ca^{2+} or Mg^{2+})-ATPase; Brush-border membrane (Rabbit kidney) (Mörtl, M. (776) 237)

Carboxylesterase; Aspirin hydrolase; Molecular weight (Guinea-pig liver microsome) (White, K.N. (785) 138)

Synthetic peptide; Phosphorylation; Amino acid sequence; Myosin light chain kinase; Protein kinase (Pearson, R.B. (786) 261)

Biliverdin reductase; Biliverdin isomer (Awruch, J. (787) 146)

Kallikrein; Trypsin; Proteinase kinetics (Pancreas) (Ascenzi, P. (789) 99)

Troponin T kinase; Casein kinase; Nucleotide analog (Risnik, V.V. (790) 108)

Heme oxygenase; Protohemin isomer (Rat liver) (Tomaro, M.L. (791) 342)

Biliverdin reductase; Biliverdin isomer; Synthetic biliverdin (Rat liver) (Tomaro, M.L. (791) 350)

Glycerophosphate acyltransferase; Dihydroxyacetone-phosphate acyltransferase; Phenylglyoxal; Butanedione (*E. coli*) (Green, P.R. (795) 348)

Phosphatidate phosphatase; Mg^{2+} dependence (*S. cerevisiae*) (Hosaka, K. (796) 102)

Acid phosphatase purification (*T. pyriformis*) (Banno, Y. (799) 20)

Mg^{2+}-ATPase; Cytosolic enzyme (Human erythrocyte) (Mostafa, M.H. (802) 490)

Subunit association
Glutamate dehydrogenase; Dissociation; Light scattering (Bovine liver) (Inoue, T. (786) 144)

Nucleoside phosphotransferase; Enzyme kinetics (Chicken intestinal mucosa) (Tesoriere, G. (786) 231)

Subunit composition
Mg^{2+}-ATPase; Molecular weight; Amino acid composition (*A. laidlawii*) (Chen, J.-W. (777) 151)

Messenger ribonucleoprotein; Protein kinase (*A. salina*) (Thoen, C. (783) 105)

Casein kinase; Cyclic nucleotide; Small subunit (Yeast) (Kudlicki, W. (784) 102)

Ornithine decarboxylase; Salt effect (Rat liver) (Kitani, T. (784) 164)

Ferritin; Microheterogeneity; Iron metabolism (Rat liver, Horse spleen) (Treffry, A. (785) 22)

Nitrate reductase; Molybdoenzyme; Proteolysis; Molecular weight (*P. denitrificans*) (Ishizuka, M. (786) 133)

Biotin-binding protein; Ligand binding; Avidin (Chicken egg yolk) (Murthy, C.V.R. (786) 222)

Subunit cooperativity
Auramine 0; Ligand binding; Lactate dehydrogenase (Ivanov, M.V. (789) 216)

Subunit interaction
Factor Va; Protein C; Phospholipid-protein interaction (Bovine) (Van de Waart, P. (799) 38)

Subunit modification
(Na^+ + K^+)-ATPase; Liposome; Tryptic digestion; Membrane reconstitution; Particle density; Freeze-fracture (Rabbit kidney) (Anner, B.M. (773) 262)

Subunit structure
DNA polymerase *α*; DNA replication; single-stranded DNA (Parvovirus) (Faust, E.A. (781) 216)

Succinate-cytochrome *c* reductase
Membrane lipid; Phase transition; Hibernation (Squirrel mitochondria) (Augee, M.L. (776) 27)

Succinate dehydrogenase
Sulfhydryl group; Substrate affinity; Redox state (Kotlyar, A.B. (784) 24)

Succinate transport
Na^+ cotransport; Sugar transport; Amino acid transport; Anion effect (Rabbit renal cortex) (Levine, R. (769) 508)

Succinyl trialanine-4-nitroanilide
Endopeptidase (Rat kidney) (Katayama, K. (787) 138)

Sucrase
Aliphatic alcohol; Membrane fluidity; Mg^{2+}-ATPase; Glucose transport; ESR (Rat intestinal brush-border) (Fernandez, Y.J. (770) 171)

Sucrose
Aging; Glycolysis; Lipid synthesis (Rat liver) (Fukuda, H. (795) 79)

Sugar nucleotide
Adenosine 3'-phosphate 5'-phosphosulfate; Nucleotide translocation (Golgi apparatus) (Capasso, J.M. (777) 133)

Sugar transport
Na^+ cotransport; Succinate transport; Amino acid transport; Anion effect (Rabbit renal cortex) (Levine, R. (769) 508)

cyclic AMP; Theophylline; Adenylate cyclase (Chicken enterocyte) (Moretó, M. (771) 68)

N-Ethylmaleimide; Insulin binding (Rat soleus muscle) (Kozka, I.J. (797) 212)

Suicide substrate
L-Methionine γ-lyase (*P. putida*) (Esaki, N. (785) 54)

Urokinase; Plasminogen activator; Serine proteinase; Coumarin derivative (Reboud-Ravaux, M. (791) 333)

Sulfate transport
Na^+ gradient; Brush-border membrane (Mouse kidney) (Cole, D.E.C. (776) 113)

Anion transport; Hydrostatic pressure (Erythrocyte membrane) (Canfield, V.A. (778) 379)

Sulfatide
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Sulfhydryl group
Transbilayer reorientation; Flip-flop; Lysophospholipid; Phospholipid asymmetry (Erythrocyte membrane) (Bergmann, W.L. (769) 390)

Ion channel; Ion selectivity; Protein cross-linking (Erythrocyte membrane) (Deuticke, B. (775) 150)

Water osmotic permeability; Epithelial membrane; Pore; Mercurial compound (Rabbit kidney) (Whittembury, G. (775) 365)

Membrane permeability; Aqueous pore; Oxidative stress (Erythrocyte membrane) (Heller, K.B. (777) 107)

Li^+ transport; Na^+ transport; Countertransport (Erythrocyte membrane) (Levy, R. (777) 157)

Gastric acid secretion; Omeprazole; $(H^+ + K^+)$-ATPase (Guinea pig) (Wallmark, B. (778) 549)

Succinate dehydrogenase; Substrate affinity; Redox state (Kotlyar, A.B. (784) 24)

Enzyme inactivation; Nicotinoylacrylate (Anderson, B.M. (787) 215)

NADP:malate dehydrogenase; Reductive activation (Pea leaf) (Scheibe, R. (788) 241)

Phospholipase C; Phospholipase A_2; *p*-Bromophenacyl bromide (Human platelet) (Kyger, E.M. (794) 96)

Methylglyoxal reductase; NADH (Goat liver) (Ray, M. (802) 119)

Sulfhydryl group modification
Lipoxygenase-1; Methylmercuric iodide; Fatty acid oxidation; Pigment bleaching (Grossman, S. (793) 455)

Sulfhydryl modulation
chloroplast ATPase; Photophosphorylation; Electron transport; ATPase (Mills, J.D. (764) 93)

Sulfhydryl reagent
Hemagglutination; Albumin; Phosphatidylethanolamine (Mouse erythrocyte) (Forbes, I.J. (771) 16)

Acetyl-CoA carboxylase; Enzyme inhibitor; Citrate; Conformational change (Rat mammary gland) (Ahmad, P.M. (789) 152)

Heme formation; Fatty acid (Taketani, S. (798) 226)

Superoxide; Nitroxide reduction; Spin label (Finkelstein, E. (802) 90)

Sulfogalactosylceramide
Immunofluorescence (Bovine, Rat spleen granulocyte) (Sarlieve, L.L. (795) 166)

Superdiamagnetic effect
Magnetic field; Liposome (Braganza, L.F. (801) 66)

Superovulation
Coenzyme A; Carnitine (Rat) (Costa, N.D. (792) 130)

Superoxide
NADPH oxidase; Cytochrome *b*-245 (Guinea-pig neutrophil) (Serra, M.C. (788) 138)

Nitroxide reduction; Sulfhydryl reagent; Spin label (Finkelstein, E. (802) 90)

Superoxide anion
Enzyme release; cyclic AMP; Leukotriene B_4 (Leukocyte) (Claesson, H.-E. (804) 52)

Superoxide dismutase
Co^{2+} derivative; ESR; Phosphate binding (Bovine erythrocyte) (Desideri, A. (785) 111)

pH dependence; Lysine (Porcine) (Argese, E. (787) 205)

Glutathione deficiency; Catalase; Glutathione peroxidase (Human fibroblast) (Marklund, S.L. (798) 302)

Superoxide-forming oxidase
NADPH; Ubiquinone-1 reductase (Pig leukocyte) (Takeshige, K. (798) 127)

Superoxide generation
Hyperoxia; Oxygen toxicity (Porcine lung, Liver) (Yusa, T. (798) 167)

Superoxide production
Leukotriene B_4 (Human leukocyte) (Sumimoto, H. (803) 271)

Superoxide radical
Membrane permeability (Bilayer) (Gus'kova, R.A. (778) 579)

Superoxide release
Immune attack; Phospholipid monolayer; Lipid hapten; Photobleaching (Neutrophil) (Hafeman, D.G. (772) 20)

Ca^{2+}; fMet-Leu-Phe (Human neutrophil) (Nakagawara, M. (805) 97)

Surface antigen
Liposome; Immune response; Encapsulation; Protein immobilization (Snyder, S.L. (772) 288)

Surface area
Atomic scale (Lee, B. (800) 309)

Surface charge
Thylakoid membrane; Electrokinetic potential; ATP hydrolysis; Aminoacridine fluorescence (Spinach chloroplast) (Torres-Pereira, J.M.G. (767) 295)

Liposome-cell interaction; Macrophage; Vesicle size (Schwendener, R.A. (772) 93)

Surface potential
Membrane potential; Mitochondrial membrane; Spin probe; Oxidative phosphorylation (Hashimoto, K. (764) 55)

Divalent cation uptake; Zeta potential (*S. cerevisiae*) (Borst-Pauwels, G.W.F.H. (771) 171)

9-Aminoacridine; Fluorescent probe; Cell wall; Cation transport (Yeast plasma membrane) (Theuvenet, A.P.R. (775) 161)

Influenza virus protein; Membrane-protein interaction; Viral assembly (Lipid bilayer) (El Karadaghi, S. (778) 269)

Influenza virus protein; Membrane-protein interaction; Amantadine; Rimantadine; Antiviral agent (Lipid bilayer) (Tverdislov, V.A. (778) 276)

Surface potential change
Chemotactic stimulation; Fluorometry (*T. pyriformis*) (Tanabe, H. (805) 345)

Surface pressure
Peptide-lipid conjugate; Lipid monolayer; Diffusion coefficient (Thompson, N.L. (772) 10)

Surface tension
Acidic phospholipid membrane; Cation binding; Membrane fusion (Ohki, S. (776) 177)

Surfactant
Cholesterol uptake; Bile salt; Brush-border membrane (Rabbit intestine) (Proulx, P. (778) 586)

Protein composition; Alveolar proteinosis (Human pulmonary) (Phelps, D.S. (791) 226)

Eustachian tube; Phosphatidylcholine (Rat) (Wheeler, S.L. (794) 348)

Surfactant micelle
Anesthesia theory; Local anesthetic; Dielectric constant; Partition coefficient; High pressure (Kaneshina, S. (777) 75)

Surfactant release
Microfilament; Cytochalasin (Type II cell) (Rice, W.R. (805) 12)

Compound 48/80 (Type II cell) (Rice, W.R. (805) 261)

Symport
Antiport; Cotransport stoichiometry; Thermodynamics; Thermostatics (Naftalin, R.J. (778) 155)

***Syn/anti* relationship**
Poly(bromodeoxyadenylic acid); DNA analog structure (Amarnath, V. (800) 207)

Synaptic vesicle
L-Glutamate efflux; Membrane potential; Depolarization (Rat brain) (Chang, H.H. (769) 499)

Osmotic fragility; Vesicle recycling (*T. marmorata*) (Giompres, P.E. (770) 166)

Synaptosomal membrane
Phosphatidylcholine exchange protein; Exchange kinetics (North, P. (772) 65)

Synaptosome
Membrane potential; Energy metabolism; (Na^+ + K^+)-ATPase (Rat brain) (Aiuchi, T. (771) 228)

γ-Aminobutyric acid; Arachidonic acid; Neurotransmitter; Membrane depolarization; Ca^{2+} (Mouse brain) (Asakura, T. (773) 301)

Membrane-toxin interaction; Neurotoxin; Insect-selective toxin; Membrane potential (Scorpion, Locust) (Gordon, D. (778) 349)

Synchrotron radiation
Fluorescence; Parinaric acid; Differentiation (K562 cell) (Conti, F. (805) 117)

Synthetic biliverdin
Biliverdin reductase; Biliverdin isomer; Substrate specificity (Rat liver) (Tomaro, M.L. (791) 350)

Synthetic peptide
Phosphorylation; Substrate specificity; Amino acid sequence; Myosin light chain kinase; Protein kinase (Pearson, R.B. (786) 261)

Phosphatidylcholine dependence; Glycosylation; Oligosaccharyltransferase (Franc, J.-L. (800) 166)

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T-2 toxin
Cell-toxin interaction (Murine lymphocyte) (Gyongyossy-Issa, M.I.C. (803) 197)

Tandem repeat
DNA sequence conservation; Ecdysone puff; Transcript polymorphism (*Drosophila*) (Izquierdo, M. (783) 114)

Taste receptor
Amino acid binding; Plasma membrane (Catfish) (Cagan, R.H. (799) 230)

Taurine
Na^+ dependence; Amino acid transport (*S. aureus* M) (Bieber, E.J. (770) 127)

Taurocholate
Bile salt-phospholipid interaction; Phosphatidylcholine; ^1H-NMR (Mixed micelle) (Stark, R.E. (770) 115)

Phosphatidylcholine; Lysophosphatidylcholine; Lysophospholipase C; Sphingomyelinase; Niemann-Pick disease (Huterer, S. (794) 1)

Tautomerism
Photoaffinity labeling; Azidoadenine nucleotide; Enzyme kinetics (Czarnecki, J.J. (800) 41)

Taxol
Protofilament number; Microtubule-associated protein; Glycerol; DNA (Porcine brain) (Böhm, K.J. (800) 119)

TCDD receptor
HPLC (Liver cytosol) (Gasiewicz, T.A. (798) 37)

Technetium marker
Drug delivery (Lymph node) (Patel, H.M. (801) 76)

Temperature
Membrane order; Dioleoylphosphatidylcholine vesicle; Hydrostatic pressure; Cholesterol (Chong, P.L.-G. (772) 197)

Fe^{3+} transport; Cation effect (Brush-border membrane) (Simpson, R.J. (772) 220)

Erythrocyte flickering; Aging; Osmolarity; Alcoholism (Fricke, K. (803) 145)

Temperature acclimation
Membrane lipid; X-ray diffraction; Phase transition (*T. pyriformis*) (Nakayama, H. (769) 311)

Cardiolipin; Membrane fluidity; Fluorescence polarization; Spin label; Mitochondria (*Tetrahymena*) (Ohki, K. (769) 563)

Phospholipid membrane; Phase transition; Differential scanning calorimetry; Phospholipid composition; Hypothalamus (Lizard brain) (Durairaj, G. (770) 7)

Fatty acid desaturase; Cyanide-sensitive factor; 1-*O*-Hexadecyl glycerol (*Tetrahymena*) (Umeki, S. (793) 123)

Temperature dependence
Li^+ transport; Hypertension (Erythrocyte membrane) (Levy, R. (769) 41)

Cilia membrane; Membrane fluidity; Ca^{2+} transport; Fluorescence anisotropy (*Paramecium*) (Otto, M.K. (769) 253)

Imipramine; Paroxetine; Drug receptor (Platelet membrane) (Plenge, P. (770) 22)

Phospholipid vesicle; Hydrodynamic radius; Phase transition (Milon, A. (777) 331)

Phytochrome; Fluorescence quantum yield; Picosecond fluorescence kinetics; Photoequilibrium (Holzwarth, A.R. (791) 265)

LDL; Fluorescence lifetime; Lipoprotein; Anilinonaphthalene sulfonate (Spragg, S.P. (792) 84)

Negative cooperativity; Angiotensin II receptor (Rat glomeruli) (Kitamura, E. (800) 66)

Arrhenius plot break; Sialyltransferase kinetics (Bador, H. (800) 75)

Temperature effect
Optical absorption; Cytochrome *P*-450; Circular dichroism (Bovine adrenal cortex medulla) (Hasumi, H. (787) 152)

Insulin binding; Insulin degradation (Erythrocyte) (Dwenger, A. (798) 132)

Temperature jump
Metmyoglobin denaturation; Denaturation kinetics; Conformational change (Horse heart) (Cho, K.C. (786) 103)

Temperature sensitivity
Nucleocytoplasmic exchange; rRNA transport (*Tetrahymena*) (Wunderlich, F. (782) 187)

Protein synthesis; Ribosomal subunit; Methionine incorporation; Met-tRNA synthetase (*S. cerevisiae*) (Sadnik, I. (782) 220)

Terminal cisternae
Ca^{2+} release; Sarcoplasmic reticulum; Longitudinal tubule (Rabbit skeletal muscle) (Watras, J. (769) 429)

Terthiophene
Acetylcholinesterase; Ultraviolet irradiation; Enzyme inactivation (Mosquito) (Kagan, J. (802) 442)

Tertiary amine
H^+ accumulation; $(H^+ + K^+)$-ATPase inhibition; Trifluoperazine; Verapamil (Hog stomach) (Im, W.B. (770) 65)

Tetaine
Glucosamine synthetase inhibition; Anticapsin; Chemical modification (Chmara, H. (787) 45)

Tetracaine
Anesthetic; Proton translocation; ATPase (*M. phlei*) (Agarwal, N. (764) 316)

Phosphatidylcholine membrane; Anesthetic-membrane interaction; Spin label; Partition coefficient; ESR (Schreier, S. (769) 231)

Liposome encapsulation; Glucose level (Rat) (Kraus-Friedmann, N. (799) 195)

Tetraether lipid
Phase transition; Lipid fluidity; Differential scanning calorimetry; Archaebacterium (*T. acidophilum*) (Blöcher, D. (778) 74)

Tetraethylammonium
Cation transport; Proton gradient; Membrane vesicle (Rat kidney cortex) (Takano, M. (773) 113)

Δ^1-Tetrahydrocannabinol
Prostaglandin E; Arachidonic acid; Acylation (WI-38 lung fibroblast) (Hunter, S.A. (793) 202)

Tetramer
Band 3 protein; Association equilibrium; Ion channel; Water channel; Lipid bilayer (Erythrocyte membrane) (Benz, R. (775) 347)

Tetramer-dimer assembly
Oxygen binding; Hemoglobin Malmö; Oxygen equilibrium; Protein stability (Adachi, K. (790) 132)

Tetranitromethane
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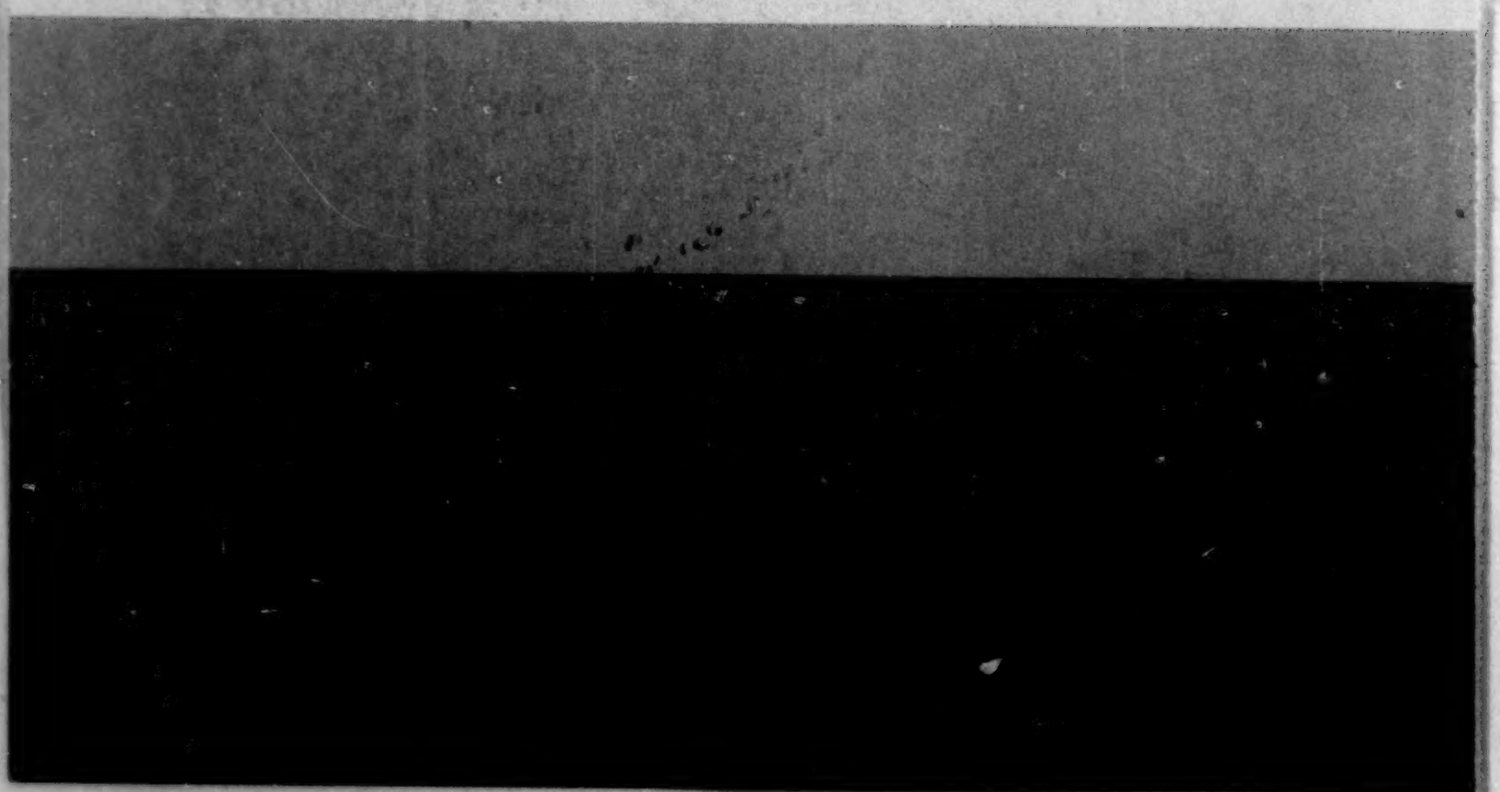
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